Increasing Visibility of Research in IUPUI ScholarWorks through NCBI LinkOut

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hello!

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Joining NCBI LinkOut for IRs

The National Center for Biotechnology Information (NCBI) LinkOut service has expanded to include links to institutional repositories (IRs).

To participate, institutional repositories need to provide:

- Basic repository details (e.g., name, URL, contact information)
- Documentation about the repository’s intellectual property policy
- Identification of repository records that are in PubMed, but not already freely available in PubMed Central (PMC)*
  *Require at least 1,000 articles that fit this criteria

Why did we do this?

Integrating IUPUI ScholarWorks with PubMed allows us to expand the visibility of our scholarship - both internal and external to the university.

In short, PubMed registers more with (most) medical faculty than IUPUI ScholarWorks.
Process
Implementation needs

To implement the solution, some needs are:

1. Repository infrastructure
   - Importance of staff for repository content knowledge and long-term implementation
   - Well-developed content
   - Unique identifiers (e.g., handles, DOIs)

1. R knowledge
   - How to create scripts and troubleshoot
   - Understanding of APIs
Workflow

IUPUI Scholarworks

Clean metadata

Export DSpace/Dublin Core metadata

ScholarWorks handles/ids/doi's

Search PubMed using R ‘rentrez’ package

PubMed

Search PubMed using R ‘rentrez’ package

PubMed Central

ScholarWorks handles/ids/doi's, PMIDs

Search PMC using R ‘rentrez’ package

PMIDs

ScholarWorks handles/ids/doi's, PMIDs, PMCIDs

Remove records without PMIDs

PMIDs, PMCIDs

Remove records with PMCIDs

Full text links FREE from IUPUI ScholarWorks

Save items
Outcomes
We currently have **1,003** articles that link out (in one way or another) to IUPUI ScholarWorks from PubMed.
ScholarWorks items not linked to PubMed were viewed/downloaded 4.75 times per month

ScholarWorks items linked to PubMed were viewed/downloaded 11.64 times per month
Faculty feedback

“Researchers want [their] work to make an impact. Impact, however one defines it, can only occur if results are broadly shared. The work by our university librarians, first to build ScholarWorks and now to integrate it with PubMed helps our faculty reach a larger audience—and thereby increases the potential impact of all of our work.”

Matthew R Allen, PhD
Professor
Anatomy & Cell Biology

“...this approach allows us to track readership that we might not have otherwise known. The download numbers provided through IUPUI ScholarWorks are useful to have to provide further evidence for promotion and tenure processes.”

Rebecca Bartlett Ellis, PhD, RN
Assistant Professor
Nursing
Where we go from here?

Photo by Nick Fewings on Unsplash
Challenges throughout

Some challenges of this project were easier to anticipate than others.

Communication
- Externally, with NCBI on identifying the right set of articles.
- Internally, with who needs to be part of/informed about this project.

Process
- Remembering workflow when sending another batch to NCBI.
  - Speed at which batches are sent - currently annually.
- Cleaning up records in ScholarWorks and being cognizant of links between systems.
What we’ve learned

Jere still doesn't know R.
But he knows how to run the R script.

The importance of documentation, documentation, documentation!
Thank you

Check out our article on this project for more details:
http://hdl.handle.net/1805/14460